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3.3 HW pp. 165-168 10-15, 17, 19-21, 26-28, 34

10. yes alt int conv

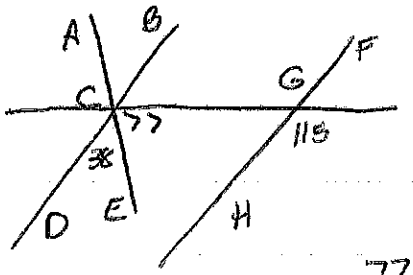
11. yes alt ext conv

12. no

13. yes corr. conv

14. no

15. yes alt. ext conv

17. 

a. $m\angle DCG = 115$ $\quad 77 + 38 = 115$ $\quad 180 - 115 = 65$

$m\angle CGH = 65$

b. Cons. Int $\angle$s

c. yes Cons. Int $\angle$s Conv.

19. yes cons. int $\angle$s conv

20. yes alt ext conv

21. no (different transversals)

26. $\overrightarrow{EB}$ not $\overrightarrow{HD}$ corr $\angle$s $\neq$

$\overrightarrow{EA} \parallel \overrightarrow{HC}$ corr $\angle$s conv

27. 

a. 1 line

b. Infinite # of lines

c. 1 plane

28. a. $2x + 2 = x + 56$

$x = 54$

b. $y + 7 + 3y - 17 = 180$

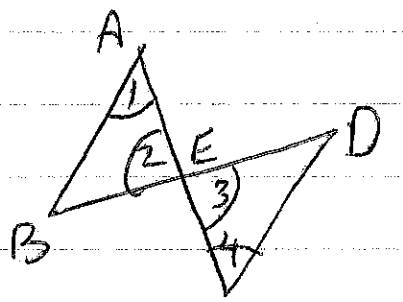
$4y - 10 = 180$

$4y = 190$

$y = 47.5$

c. No if $x = 54$ then one $\angle = 110°$, the other measurement must be 70 which means $y = 63 \neq 47.5$

34.



G: $\angle 1 \cong \angle 2$; $\angle 3 \cong \angle 4$

P: $\overline{AB} \parallel \overline{CD}$

S	R
① ~	① Given
② $\angle 2 \cong \angle 3$	② Vert $\angle$s $\cong$
③ $\angle 1 \cong \angle 4$	③ [illegible] Transitive
④ $\overline{AB} \parallel \overline{CD}$	④ Alt int $\angle$s Converse